

# CERAMOGRAPHY

Preparation and Analysis of Ceramic Microstructures







# <u>Ceramography Preparation And Analysis Of Ceramic</u> <u>Microstructures 06958g</u>

**Richard E. Chinn** 

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Ceramography Richard E. Chinn, 2002 Ceramography provides detailed instructions on how to saw mount grind polish etch examine interpret and measure ceramic microstructures This new book includes an atlas of ceramic microstructures quantitative microstructural example problems with solutions properties and data tables specific to ceramic microstructures more than 100 original photographs and illustrations and numerous practical tips and tricks of the trade An excellent reference guide for technicians in guality control and R D process engineers in ceramic manufacturing and their counterparts in engineering firms national laboratories research institutes and universities **Ceramography** Richard E. Chinn, 2002-09-28 Preface p viii About the Author p x List of Subroutines p xi Chapter 1 Introduction p 1 Ceramography in Materials Science p 1 Crystallography p 2 Laboratory Safety p 3 Ceramographic Laboratory Design p 5 Chapter 2 Ceramic Fabrication p 9 Ceramics p 9 Commercial Fabrication of Ceramics p 11 Laboratory Fabrication of Ceramics p 13 Chapter 3 Sawing and Mounting p 19 Sawing p 19 Mounting p 22 Edge Retention p 30 Beveled Edge p 31 Ceramographic Mounting Resins p 31 Chapter 4 Grinding and Polishing p 35 Automatic Grinding p 35 Automatic Polishing p 36 Manual Grinding p 39 Manual Polishing p 40 Grinding and Polishing Accessories p 40 Chapter 5 Etching p 45 Thermal Etching p 45 Chemical Etching p 54 Electrolytic Etching p 56 Other Etching Methods p 58 Overetched Ceramics p 67 Chapter 6 Petrographic Thin Section Preparation p 69 Sawing p 69 Mounting p 70 Grinding p 71 Chapter 7 Optics and Microscopy p 75 The Microscope p 75 Kohler Illumination p 79 Magnification and Resolution p 81 Depth of Field p 84 Differential Interference Contrast p 85 Dark Field Illumination p 86 Oil Immersion p 87 Stereomicroscopy p 88 Crystal Optics p 88 Petrography Transmitted Light and Thin Sections p 92 Replication and Field Ceramography p 95 Sputter Coating p 97 Scanning Electron Microscopy p 99 Other Microscope Types p 103 As Fired Surface p 105 Stereo Pairs p 105 Acoustic Microscopy p 106 Confocal Laser Scanning Microscopy p 111 Micrography p 112 Chapter 8 Atlas of Ceramic Microstructures p 117 Alumina p 117 Borides p 130 Carbides p 130 Composites p 132 Metallized Ceramics p 134 Nitrides p 136 Oxides p 137 Silicon Carbide p 139 Spinel p 141 Zirconia p 142 Chapter 9 Quantitative Ceramography p 145 Stereology p 145 Grain Size p 145 Grain Shape p 155 Porosity and Second Phase Content p 157 Microindentation Hardness p 160 Toughness p 168 Chapter 10 Qualitative Ceramography p 177 Morphology p 177 Phase Determination p 178 Preferred Orientation p 180 Fractography p 181 Artifacts p 185 Chapter 11 Image Analysis p 189 Algorithm p 190 Critical Aspects p 193 Measurements p 197 Digital Images p 198 Appendix A ASTM Procedures Applicable to Ceramography p 201 Headings in the ASTM Subject Index p 202 Appendix B Ceramographic Equipment Manufacturers p 203 Appendix C Abrasive Size Equivalents p 209 Index p 211 Ceramic Microstructures ,1968 Ceramic Microstructures R. M. Fulrath, J. A. Pask, 1968-01-15 Ceramic Microstructures Richard M. Fulrath, Joseph Adam Pask, 1976 Microstructure of Ceramic Materials American Ceramic Society, 1964 Ceramics and Ceramic Composites G. Elssner, H. Hoven, G. Kiessler, P. Wellner, 1999-12-14 Ceramics and ceramic

composites are now used in almost all areas of technology and have potential for even greater and more widespread applications To make this a reality it is increasingly necessary to understand the microstructure of the material and its relationship with properties and performance Central to this is the characterization of the material in particular using optical and scanning electron microscopy techniques This book acts as an expert guide to the various steps necessary for successful and accurate characterization of these materials including the crucially important preparation stage the techniques used to reveal the microstructure and the analysis of the results In particular the book presents fundamental information on preparing polished sections of ceramics and ceramic composites including the main steps of sampling sectioning mounting and impregnation and mechanical grinding lapping and polishing It discusses microstructural imaging in the optical microscope OM and the use of the scanning electron microscope SEM Etching or contrast enhancement following final polishing in order to reveal the material s microstructure is also covered An entire chapter is devoted to material specific preparation procedures for polished sections These procedures take into account the properties of the ceramic or composite being examined and the purpose of the examination They have proven to be very suitable for the respective materials and are effective for revealing the pores The examples presented here for ceramics and ceramic composites provide polished sections of good to excellent quality for routine examination under the optical microscope They include tips for etching and contrast enhancement as well as microstructural images Chapter 5 discusses the preparation of polished sections for purposes of examination and contains information on producing oblique sections and controlled removal of material It also addresses the production of thin sections As a complement to the examination of the microstructure chapter 6 provides insight into the evaluation of hardness testing indentations Chapter 7 concludes this work with an overview of the technical literature

Ceramics and ceramic composites: materialographic preparation, 1999 Ceramic Microstructures W.E. Lee, Mark Rainforth, 1994-10-31 This text deals with the effect of processing on the microstructure and properties of advanced structural and electroceramic materials It fulfils the need for a well illustrated book explaining the relation between microstructure and properties in structural ceramics featuring high quality micrographs and characterization techniques

Ceramic Microstructures Antoni P. Tomsia, Andreas M. Glaeser, 2012-12-06 This volume titled Proceedings of the International Materials Symposium on Ce ramic Microstructures Control at the Atomic Level summarizes the progress that has been achieved during the past decade in understanding and controlling microstructures in ceram ics A particular emphasis of the symposium and therefore of this volume is advances in the characterization understanding and control of micro structures at the atomic or near atomic level This symposium is the fourth in a series of meetings held every ten years devoted to ceramic microstructures The inaugural meeting took place in 1966 and focussed on the analysis significance and production of microstructure the symposium emphasized the need for and importance of characterization in achieving a more complete understanding of the physical and chemical characteristics of ceramics A consensus emerged at that meeting on

the critical importance of characterization in achieving a more complete understanding of ceramic properties That point of view became widely accepted in the ensuing decade The second meeting took place in 1976 at a time of world wide energy shortages and thus emphasized energy related applications of ceramics and more specifically microstructure property relationships of those materials The third meeting held in 1986 was devoted to the role that interfaces played both during processing and in influencing the ultimate properties of single and polyphase ceramics and ceramic metal systems

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